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calculations and spreadsheet as database with spreadsheet sdk in C# and ByteScout Barcode Suite

Learn to code in C# to make calculations and spreadsheet as database with spreadsheet sdk with this simple How-To tutorial

An easy to understand guide to learn how to calculations and spreadsheet as database with spreadsheet sdk in C#. Calculations and spreadsheet as database with spreadsheet sdk in C# can be applied with ByteScout Barcode Suite. ByteScout Barcode Suite is the set that includes three different SDK products to generate barcodes, read barcodes and read and write spreadsheets: Barcode SDK, Barcode Reader SDK and Spreadsheet SDK.

Want to speed up the application development? Then this C#, code samples for C#, developers help to speed up the application development and writing a code when using ByteScout Barcode Suite. Just copy and paste this C# sample code to your C# application's code editor, add a reference to ByteScout Barcode Suite (if you haven't added yet) and you are ready to go! Enjoy writing a code with ready-to-use sample C# codes to implement calculations and spreadsheet as database with spreadsheet sdk using ByteScout Barcode Suite.

ByteScout Barcode Suite is available as a free trial. You may get it from our website along with all other source code samples for C# applications.

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Source Code Files:

Form1.Designer.cs

```
namespace SimpleDatabase
{
    partial class Form1
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
        {
            System.ComponentModel.ComponentResourceManager resources = new System.ComponentModel.ComponentResourceManager(typeof(Form1));
            this.Label3 = new System.Windows.Forms.Label();
            this.TextBox3 = new System.Windows.Forms.TextBox();
            this.Label4 = new System.Windows.Forms.Label();
            this.Button2 = new System.Windows.Forms.Button();
            this.Button4 = new System.Windows.Forms.Button();
            this.Button1 = new System.Windows.Forms.Button();
            this.Button3 = new System.Windows.Forms.Button();
            this.TextBox4 = new System.Windows.Forms.TextBox();
            this.Label5 = new System.Windows.Forms.Label();
            this.TextBox2 = new System.Windows.Forms.TextBox();
            this.Label2 = new System.Windows.Forms.Label();
            this.GroupBox1 = new System.Windows.Forms.GroupBox();
            this.TextBox1 = new System.Windows.Forms.TextBox();
            this.Label1 = new System.Windows.Forms.Label();
            this.GroupBox1.SuspendLayout();
            this.SuspendLayout();
            // 
            // Label3
            // 
            this.Label3.AutoSize = true;
            this.Label3.Location = new System.Drawing.Point(6, 94);
            this.Label3.Name = "Label3";
            // 
            // TextBox3
            // 
            this.TextBox3.Location = new System.Drawing.Point(6, 121);
            this.TextBox3.Name = "TextBox3";
            // 
            // Label4
            // 
            this.Label4.AutoSize = true;
            this.Label4.Location = new System.Drawing.Point(6, 148);
            this.Label4.Name = "Label4";
            // 
            // Button2
            // 
            this.Button2.Location = new System.Drawing.Point(6, 175);
            this.Button2.Name = "Button2";
            // 
            // Button4
            // 
            this.Button4.Location = new System.Drawing.Point(6, 192);
            this.Button4.Name = "Button4";
            // 
            // Button1
            // 
            this.Button1.Location = new System.Drawing.Point(6, 210);
            this.Button1.Name = "Button1";
            // 
            // Button3
            // 
            this.Button3.Location = new System.Drawing.Point(6, 227);
            this.Button3.Name = "Button3";
            // 
            // TextBox4
            // 
            this.TextBox4.Location = new System.Drawing.Point(6, 254);
            this.TextBox4.Name = "TextBox4";
            // 
            // Label5
            // 
            this.Label5.AutoSize = true;
            this.Label5.Location = new System.Drawing.Point(6, 281);
            this.Label5.Name = "Label5";
            // 
            // TextBox2
            // 
            this.TextBox2.Location = new System.Drawing.Point(6, 308);
            this.TextBox2.Name = "TextBox2";
            // 
            // Label2
            // 
            this.Label2.AutoSize = true;
            this.Label2.Location = new System.Drawing.Point(6, 335);
            this.Label2.Name = "Label2";
            // 
            // GroupBox1
            // 
            this.GroupBox1.Controls.Add(this.TextBox1);
            this.GroupBox1.Controls.Add(this.Label1);
            this.GroupBox1.Location = new System.Drawing.Point(6, 362);
            this.GroupBox1.Name = "GroupBox1";
            this.GroupBox1.Size = new System.Drawing.Size(120, 100);
            this.GroupBox1.TabIndex = 0;
            this.GroupBox1.TabStop = false;
            this.GroupBox1.Text = "groupBox1";
            this.GroupBox1.ResumeLayout(false);
            this.GroupBox1.PerformLayout();
            // 
            // TextBox1
            // 
            this.TextBox1.Location = new System.Drawing.Point(6, 362);
            this.TextBox1.Name = "TextBox1";
            // 
            // Label1
            // 
            this.Label1.AutoSize = true;
            this.Label1.Location = new System.Drawing.Point(6, 389);
            this.Label1.Name = "Label1";
            // 
            // Form1
            // 
            this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.ClientSize = new System.Drawing.Size(292, 273);
            this.Name = "Form1";
            this.Text = "Form1";
            this.ResumeLayout(false);
        }
    }
}
```

```
this.Label3.Size = new System.Drawing.Size(39, 13);
this.Label3.TabIndex = 12;
this.Label3.Text = "Label3";
//
// TextBox3
//
this.TextBox3.Location = new System.Drawing.Point(9, 110);
this.TextBox3.Name = "TextBox3";
this.TextBox3.Size = new System.Drawing.Size(135, 20);
this.TextBox3.TabIndex = 11;
//
// Label4
//
this.Label4.AutoSize = true;
this.Label4.Location = new System.Drawing.Point(6, 133);
this.Label4.Name = "Label4";
this.Label4.Size = new System.Drawing.Size(39, 13);
this.Label4.TabIndex = 10;
this.Label4.Text = "Label4";
//
// Button2
//
this.Button2.Location = new System.Drawing.Point(184, 45);
this.Button2.Name = "Button2";
this.Button2.Size = new System.Drawing.Size(100, 23);
this.Button2.TabIndex = 7;
this.Button2.Text = "Save to XLS";
this.Button2.UseVisualStyleBackColor = true;
this.Button2.Click += new System.EventHandler(this.Button2_Click);
//
// Button4
//
this.Button4.Font = new System.Drawing.Font("Microsoft Sans Serif", 8.25F,
this.Button4.Location = new System.Drawing.Point(9, 175);
this.Button4.Name = "Button4";
this.Button4.Size = new System.Drawing.Size(135, 23);
this.Button4.TabIndex = 14;
this.Button4.Text = "Recalculate";
this.Button4.UseVisualStyleBackColor = true;
this.Button4.Click += new System.EventHandler(this.Button4_Click);
//
// Button1
//
this.Button1.Location = new System.Drawing.Point(184, 16);
this.Button1.Name = "Button1";
this.Button1.Size = new System.Drawing.Size(100, 23);
this.Button1.TabIndex = 6;
this.Button1.Text = "Load from XLS";
this.Button1.UseVisualStyleBackColor = true;
this.Button1.Click += new System.EventHandler(this.Button1_Click);
//
// Button3
//
this.Button3.Location = new System.Drawing.Point(184, 74);
this.Button3.Name = "Button3";
this.Button3.Size = new System.Drawing.Size(100, 23);
this.Button3.TabIndex = 8;
this.Button3.Text = "View in Excel";
this.Button3.UseVisualStyleBackColor = true;
this.Button3.Click += new System.EventHandler(this.Button3_Click);
```

```
//  
// TextBox4  
//  
this.TextBox4.Location = new System.Drawing.Point(9, 149);  
this.TextBox4.Name = "TextBox4";  
this.TextBox4.Size = new System.Drawing.Size(135, 20);  
this.TextBox4.TabIndex = 13;  
//  
// Label5  
//  
this.Label5.Location = new System.Drawing.Point(9, 240);  
this.Label5.Name = "Label5";  
this.Label5.Size = new System.Drawing.Size(275, 113);  
this.Label5.TabIndex = 9;  
this.Label5.Text = resources.GetString("Label5.Text");  
//  
// TextBox2  
//  
this.TextBox2.Location = new System.Drawing.Point(9, 71);  
this.TextBox2.Name = "TextBox2";  
this.TextBox2.Size = new System.Drawing.Size(135, 20);  
this.TextBox2.TabIndex = 9;  
//  
// Label2  
//  
this.Label2.AutoSize = true;  
this.Label2.Location = new System.Drawing.Point(6, 55);  
this.Label2.Name = "Label2";  
this.Label2.Size = new System.Drawing.Size(39, 13);  
this.Label2.TabIndex = 8;  
this.Label2.Text = "Label2";  
//  
// GroupBox1  
//  
this.GroupBox1.Controls.Add(this.Button4);  
this.GroupBox1.Controls.Add(this.TextBox4);  
this.GroupBox1.Controls.Add(this.Label13);  
this.GroupBox1.Controls.Add(this.TextBox3);  
this.GroupBox1.Controls.Add(this.Label14);  
this.GroupBox1.Controls.Add(this.TextBox2);  
this.GroupBox1.Controls.Add(this.Label2);  
this.GroupBox1.Controls.Add(this.TextBox1);  
this.GroupBox1.Controls.Add(this.Label1);  
this.GroupBox1.Location = new System.Drawing.Point(12, 10);  
this.GroupBox1.Name = "GroupBox1";  
this.GroupBox1.Size = new System.Drawing.Size(166, 212);  
this.GroupBox1.TabIndex = 5;  
this.GroupBox1.TabStop = false;  
//  
// TextBox1  
//  
this.TextBox1.Location = new System.Drawing.Point(9, 32);  
this.TextBox1.Name = "TextBox1";  
this.TextBox1.Size = new System.Drawing.Size(135, 20);  
this.TextBox1.TabIndex = 7;  
//  
// Label1  
//  
this.Label1.AutoSize = true;  
this.Label1.Location = new System.Drawing.Point(6, 16);
```

```

        this.Label1.Name = "Label1";
        this.Label1.Size = new System.Drawing.Size(39, 13);
        this.Label1.TabIndex = 6;
        this.Label1.Text = "Label1";
        //
        // Form1
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(292, 362);
        this.Controls.Add(this.Button2);
        this.Controls.Add(this.Button1);
        this.Controls.Add(this.Button3);
        this.Controls.Add(this.Label5);
        this.Controls.Add(this.GroupBox1);
        this.Name = "Form1";
        this.Text = "Form1";
        this.FormClosing += new System.Windows.Forms.FormClosingEventHandler(this.Form1_FormClosing);
        this.Load += new System.EventHandler(this.Form1_Load);
        this.GroupBox1.ResumeLayout(false);
        this.GroupBox1.PerformLayout();
        this.ResumeLayout(false);

    }

    #endregion

    internal System.Windows.Forms.Label Label3;
    internal System.Windows.Forms.TextBox TextBox3;
    internal System.Windows.Forms.Label Label4;
    internal System.Windows.Forms.Button Button2;
    internal System.Windows.Forms.Button Button4;
    internal System.Windows.Forms.Button Button1;
    internal System.Windows.Forms.Button Button3;
    internal System.Windows.Forms.TextBox TextBox4;
    internal System.Windows.Forms.Label Label5;
    internal System.Windows.Forms.TextBox TextBox2;
    internal System.Windows.Forms.Label Label2;
    internal System.Windows.Forms.GroupBox GroupBox1;
    internal System.Windows.Forms.TextBox TextBox1;
    internal System.Windows.Forms.Label Label1;
}
}

```

Form1.cs

```

using System;
using System.Collections.Generic;
using System.ComponentModel;

```

```
using System.Data;
using System.Diagnostics;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

using Bytescout.Spreadsheet;

namespace SimpleDatabase
{
    public partial class Form1 : Form
    {
        Spreadsheet _spreadsheet;

        private void LoadXLS()
        {
            Worksheet worksheet;
            _spreadsheet = new Spreadsheet();
            _spreadsheet.LoadFromFile("Database.xls");

            worksheet = _spreadsheet.Workbook.Worksheets[0];
            Label1.Text = (string)worksheet.Cell("A1").Value;
            TextBox1.Text = worksheet.Cell("A2").Value.ToString();

            Label2.Text = (string)worksheet.Cell("B1").Value;
            TextBox2.Text = worksheet.Cell("B2").Value.ToString();

            Label3.Text = (string)worksheet.Cell("C1").Value;
            TextBox3.Text = worksheet.Cell("C2").Formula;

            Label4.Text = "Calculated value of C2";
            worksheet.Cell("C2").Calculate();
            TextBox4.Text = worksheet.Cell("C2").Value.ToString();
        }

        private void SaveXLS()
        {
            Worksheet worksheet;

            worksheet = _spreadsheet.Workbook.Worksheets[0];

            worksheet.Cell("A2").Value = System.Convert.ToInt32(TextBox1.Text);
            worksheet.Cell("B2").Value = System.Convert.ToInt32(TextBox2.Text);
            worksheet.Cell("C2").Formula = TextBox3.Text;

            try
            {
                System.IO.File.Delete("Database.xls");
            }
            catch (Exception ex)
            {
            }

            _spreadsheet.SaveAs("Database.xls");
        }

        public Form1()
        {
            InitializeComponent();
        }
}
```

```
private void Form1_FormClosing(object sender, FormClosingEventArgs e)
{
    SaveXLS();
    _spreadsheet.Close();
}

private void ReCalculate()
{
    Worksheet worksheet;
    worksheet = _spreadsheet.Workbook.Worksheets[0];
    worksheet.Cell("A2").Value = System.Convert.ToInt32(textBox1.Text);
    worksheet.Cell("B2").Value = System.Convert.ToInt32(textBox2.Text);
    worksheet.Cell("C2").Formula = textBox3.Text;
    worksheet.Cell("C2").Calculate();
    textBox4.Text = worksheet.Cell("C2").Value.ToString();
}

private void Button4_Click(object sender, EventArgs e)
{
    ReCalculate();
}

private void Form1_Load(object sender, EventArgs e)
{
    LoadXLS();
}

private void Button3_Click(object sender, EventArgs e)
{
    // open in default spreadsheets viewer/editor
    SaveXLS();
    try
    {
        Process.Start("Database.xls");
    }
    catch
    {
    }
}

private void Button1_Click(object sender, EventArgs e)
{
    LoadXLS();
    MessageBox.Show("Loaded from Database.xls");
}

private void Button2_Click(object sender, EventArgs e)
{
    SaveXLS();
    MessageBox.Show("Saved into Database.xls");
}
}
```

Program.cs

```
using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace SimpleDatabase
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```

VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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